

35-1478: Polyclonal Antibody to AMPK Alpha1 (Ab-487)Antibody

Clonality :	Polyclonal
Application :	WB,IHC
Reactivity :	Human
Gene :	PRKAA1
Gene ID :	5562
Uniprot ID :	Q13131/P54646
Format :	Purified
Alternative Name :	AAPK1, AMPK alpha-1 chain, AMPK-alpha1, HMG-CoA reductase kinase, PRKAA1
Isotype :	Rabbit IgG
Immunogen Information :	Peptide sequence around aa.485~489 (S-G-S-V-S) derived from Human AMPKa1.

Description

Responsible for the regulation of fatty acid synthesis by phosphorylation of acetyl-CoA carboxylase. It also regulates cholesterol synthesis via phosphorylation and inactivation of hormone-sensitive lipase and hydroxymethylglutaryl-CoA reductase. Appears to act as a metabolic stress-sensing protein kinase switching off biosynthetic pathways when cellular ATP levels are depleted and when 5'-AMP rises in response to fuel limitation and/or hypoxia. This is a catalytic subunit.

Product Info

Amount :	50 µl / 100 µl
Content :	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage condition :	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Predicted MW: 63kd, Western blotting: 1:500~1:1000, Immunohistochemistry: 1:50~1:100

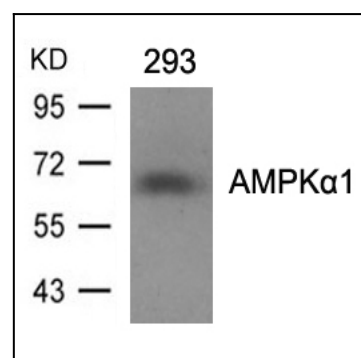


Figure 1: Western blot analysis of extracts from 293 cells using AMPKα1 (Ab-487)Antibody 35-1478 .

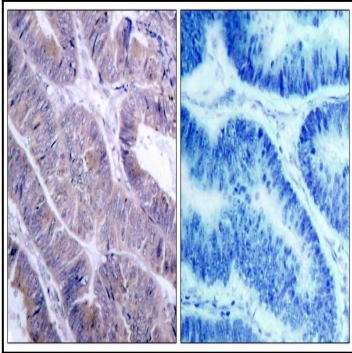


Figure 2: Immunohistochemical analysis of paraffin-embedded human colon carcinoma tissue using AMPK α 1 (Ab-487)Antibody 35-1478 (left) or the same antibody preincubated with blocking peptide(right).